



APPLN. FILING DATE: AUGUST 22, 2001
TITLE: METHOD FOR MAKING MORPHOLINO-NUCLEOTIDES,
AND THEIR USE FOR ANALYSING AND MARKING NUCLEIC
ACID SEQUENCES
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APPLN. SERIAL NO.: 09/914,221

Figure 5

Sequence to be analysed (polymerase template)

3' HO-ApTpGpCpApApTpCpCpGpApTpGpApCpTpGpApGpCpCpApTpCpG 5'
(SEQ ID NO: 1)

Primer

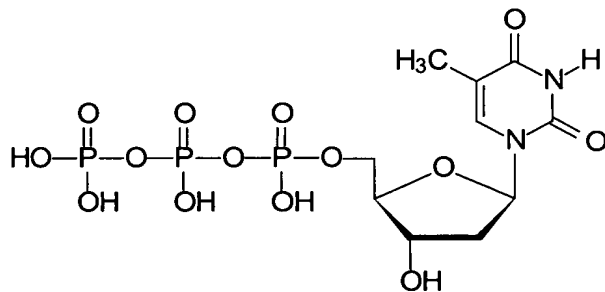
+

5' TpApCpGpTpTpApGpGpC-OH 3' (SEQ ID NO: 2)



3' HO-ApTpGpCpApApTpCpCpGpApTpGpApCpTpGpApGpCpCpApTpCpG 5'
5' TpApCpGpTpTpApGpGpC-OH 3'

DNA Polymerase



5' Thymidine triphosphate

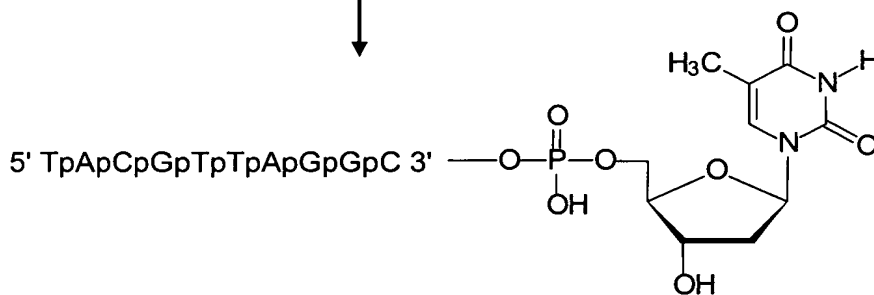




Figure 6

Sequence to be analysed (polymerase template)

3' HO-ApTpGpCpApApTpCpCpGpApTpGpApCpTpGpApGpCpCpApTpCpG 5'
(SEQ ID NO: 1)

Primer

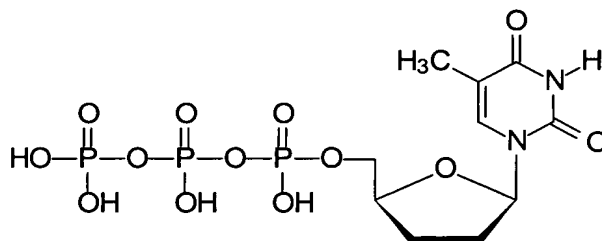
+

5' TpApCpGpTpTpApGpGpC-OH 3' (SEQ ID NO: 2)

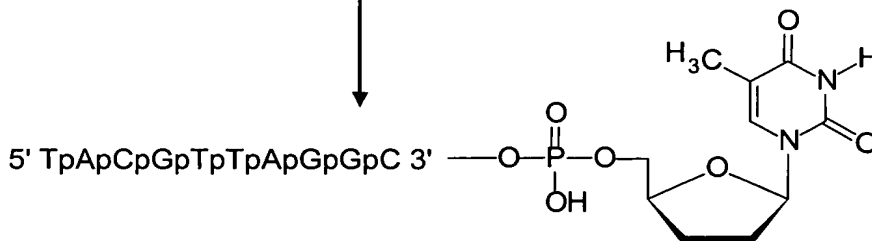


3' HO-ApTpGpCpApApTpCpCpGpApTpGpApCpTpGpApGpCpCpApTpCpG 5'
5' TpApCpGpTpTpApGpGpC-OH 3'

DNA Polymerase



3'-deoxythymidine 5'-triphosphate



The newly synthesized chain no longer contains 3' OH
required to attach the next nucleotide